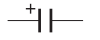
SCHEMATIC DIAGRAM

MODEL : 28Z44B

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

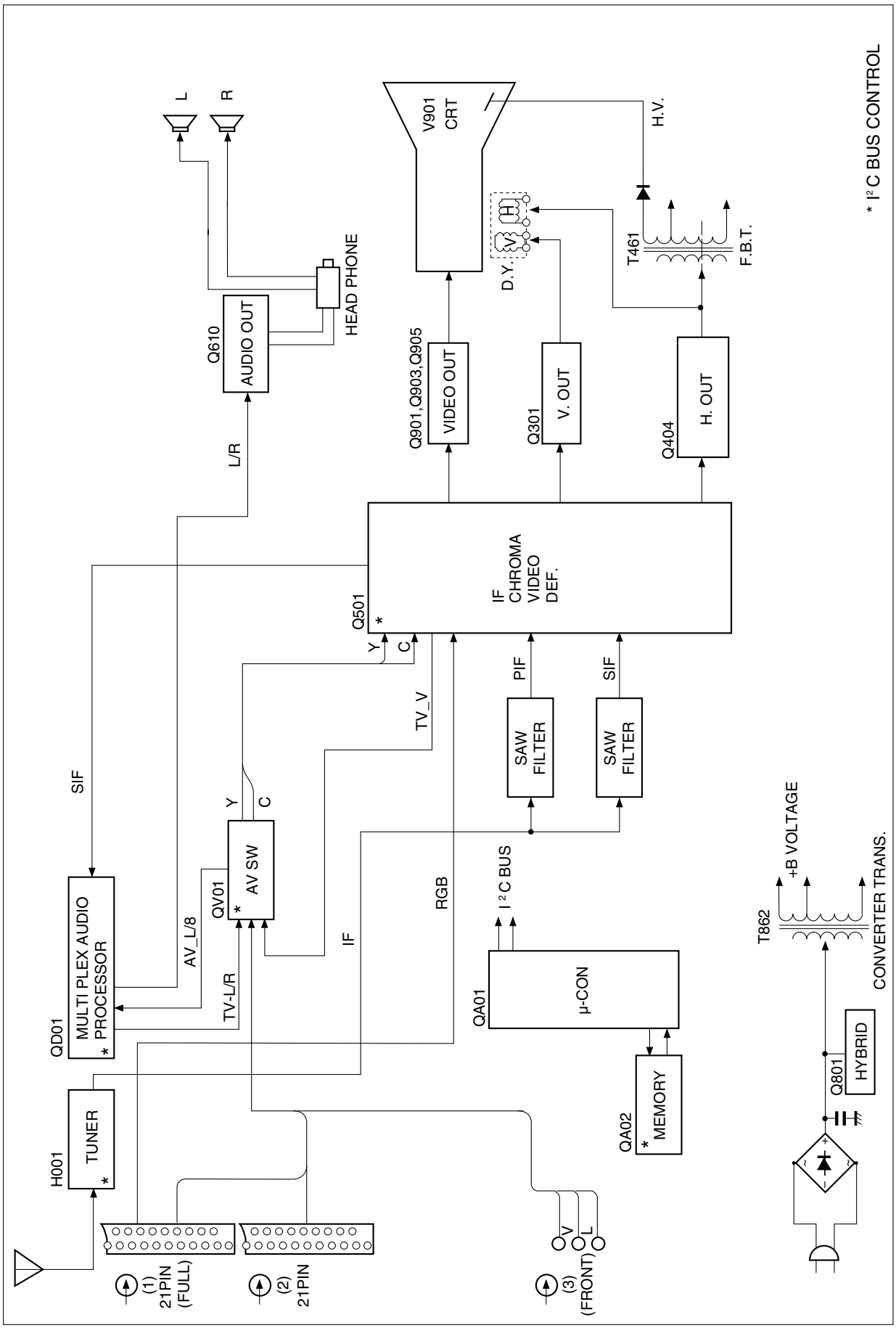
NOTE:

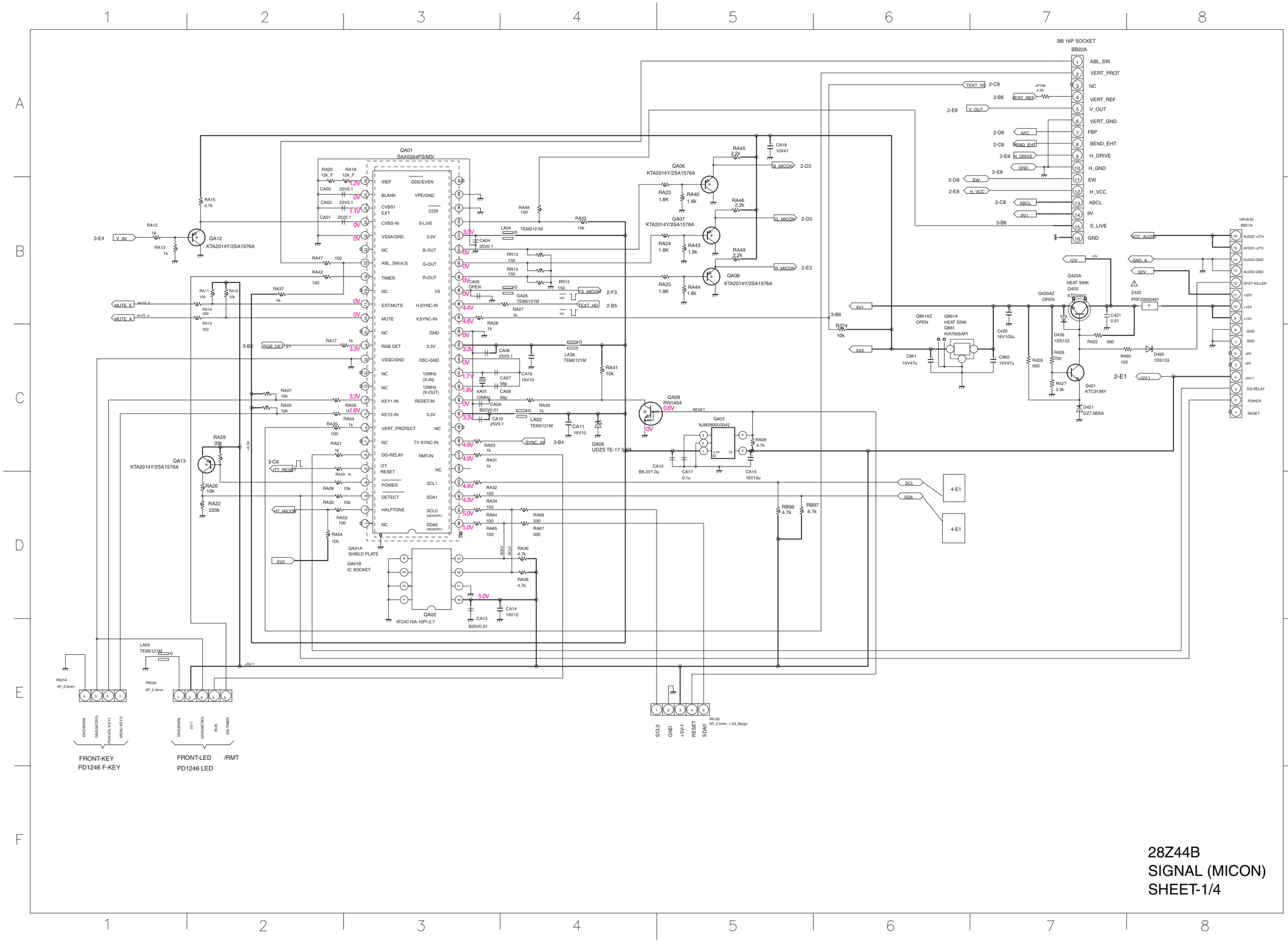
1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
    Electolytic capacito Mylar capacitor
3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage at 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

SIGNAL Circuit	MICON	[SHEET– 1/4]	1/8
	VCD/IF/V OUT	[SHEET– 2/4]	2/8
	AV/AUDIO	[SHEET– 3/4]	3/8
	AC IN	[SHEET– 4/4]	4/8
POWER/DEF/CRT D Circuit	POWER/DEFLECTION	[SHEET– 1/2]	5/8
POWER/DEF/CRT D Circuit	CRT D	[SHEET– 2/2]	6/8
CONT Circuit			7/8
MA Circuit			8/8

CIRCUIT BLOCK DIAGRAM




BB 16P SOCKET
BB22A
ABL_SW
VERT_PROT
NC
VERT_REF
V_OUT
VERT_GND
FBP
BEND_EHT
H_DRIVE
H_GND
EW
H_VCC
ABCL
9V
S_LIVE
GND
QA01
SAA5564PS/M3/
IREF
ODD/EVEN
BLANK
VPE/GND
CVBS1
EXT
COR
CVBS-IN
S-LIVE
VSSA/GND
3.3V
NC
B-OUT
ABL_SW(4:3)
G-OUT
TIMER
R-OUT
NC
YS
EXT.MUTE
H.SYNC-IN
MUTE
V.SYNC-IN
NC
GND
RGB DET
3.3V
VSSC/GND
OSC-GND
NC
12MHz (X-IN)
NC
12MHz (X-OUT)
KEY1-IN
RESET-IN
KEY2-IN
3.3V
VERT_PROTECT
NC
NC
TV SYNC-IN
DG-RELAY
RMT-IN
ITT RESET
NC
POWER
SCL1
DETECT
SDA1
HALFTONE
SCL0 (MEMORY)
NC
SDA0 (MEMORY)
QA01A
SHIELD PLATE
QA01B
IC SOCKET
QA02
AT24C16A-10PI-2.7
QA12
KTA2014Y/2SA1576A
QA13
KTA2014Y/2SA1576A
QA06
KTA2014Y/2SA1576A
QA07
KTA2014Y/2SA1576A
QA08
KTA2014Y/2SA1576A
QA09
RN1404
QA03
NJM2800U3342
DA06
UDZS TE-17 5.6B
LA02
TEM2121M
LA04
TEM2121M
LA05
TEM2121M
LA39
TEM2121M
GA26
TEM2121M
XA01
12MHz
B_MICON
G_MICON
R_MICON
VS_MICON
TEXT_HD
SYNC_AV
RESET
ITT_RESET
HT_MICOR
SCL
SDA
5V2
9V1
+5V-1
+3.3V
TEXT_VD
V_OUT
VERT_REF
AFC
BEND_EHT
H_DRIVE
GND
EW
H_VCC
ABCL
9V1
S_LIVE
V_AV
MUTE_F
MUTE_A
RGB_DET
Q861AZ OPEN
Q861A HEAT SINK Q861 KIA7805API
Q420A HEAT SINK Q420 KTD2060
Q420AZ OPEN
Q421 KTC3198Y
D421 DZ7.5BSA
D436 1SS133
D490 1SS133
Z420 PRF20005491
VCC_AUDIO
GND_A
32V
12V
AUDIO +27V
AYDIO +27V
AUDIO GND
AUDIO GND
SPOT KILLER
+32V
+12V
+12V
GND
GND
+8V
+8V
+5V-1
DG-RELAY
POWER
RESET
PA01A 4P_2.5mm
PA02A 5P_2.5mm
GND(MAIN)
GND(MICRO)
POS/VOL.KEY-1
MENU /KEY-2
5-V-1
IR-IN
ON TIMER
FRONT-KEY
PD1246 F-KEY
FRONT-LED /RMT
PD1246 LED
PR102
5P_2.5mm_1.5A_Beige
SCL0
GND
+5V-1
RESET
SDA0
4-E1
2-E1
28Z44B
SIGNAL (MICON)
SHEET-1/4
(1/8)

TUNER

H001
TEDB7-302A

28Z44B
SIGNAL (VCD/IF/V OUT)
SHEET-2/4

H002
MPSE24
NICAM/IGR/VDS MODULE for 28/32Z47B

H002
MPSE22A

H003A
OPEN
H003B
PD1191A
H003C
C035143E

EXT1
PH01
21P JACK

EXT2
PH02
21P JACK

UDZSTE-17 5.6B

QV01
MM1495XD

LV06
10u COLTRF4100AT

LV07
10u COLTRF4100AT

LV08
10u COLTRF4100AT

LV09
10u COLTRF4100AT

LV10
TEM2028AA\\TEM2028AH

Q610 TA8211AH

Q610A
HEAT SINK

GND_A

9V1

12V

MUTE_A

MUTE_B

ITT_RESE

VCC_AUDIO

SCL

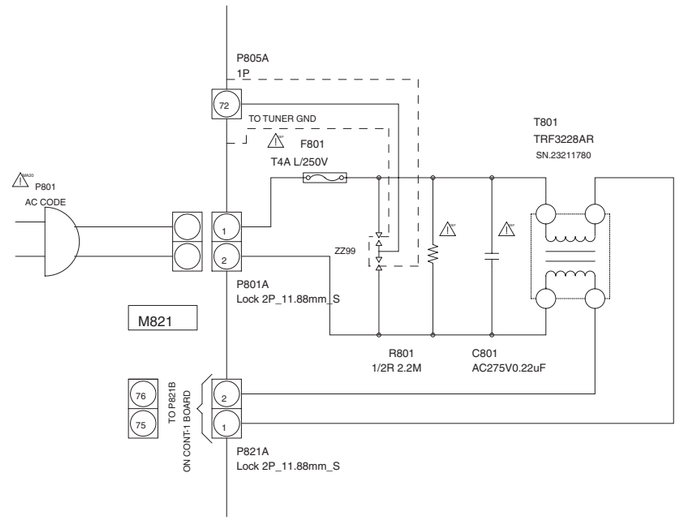
SDA

SYNC_AV 1-D3

TV_GND

28Z44B
SIGNAL (AV/AUDIO)
SHEET-3/4

(3/8)



28Z44B
SIGNAL (AC IN)
SHEET-4/4

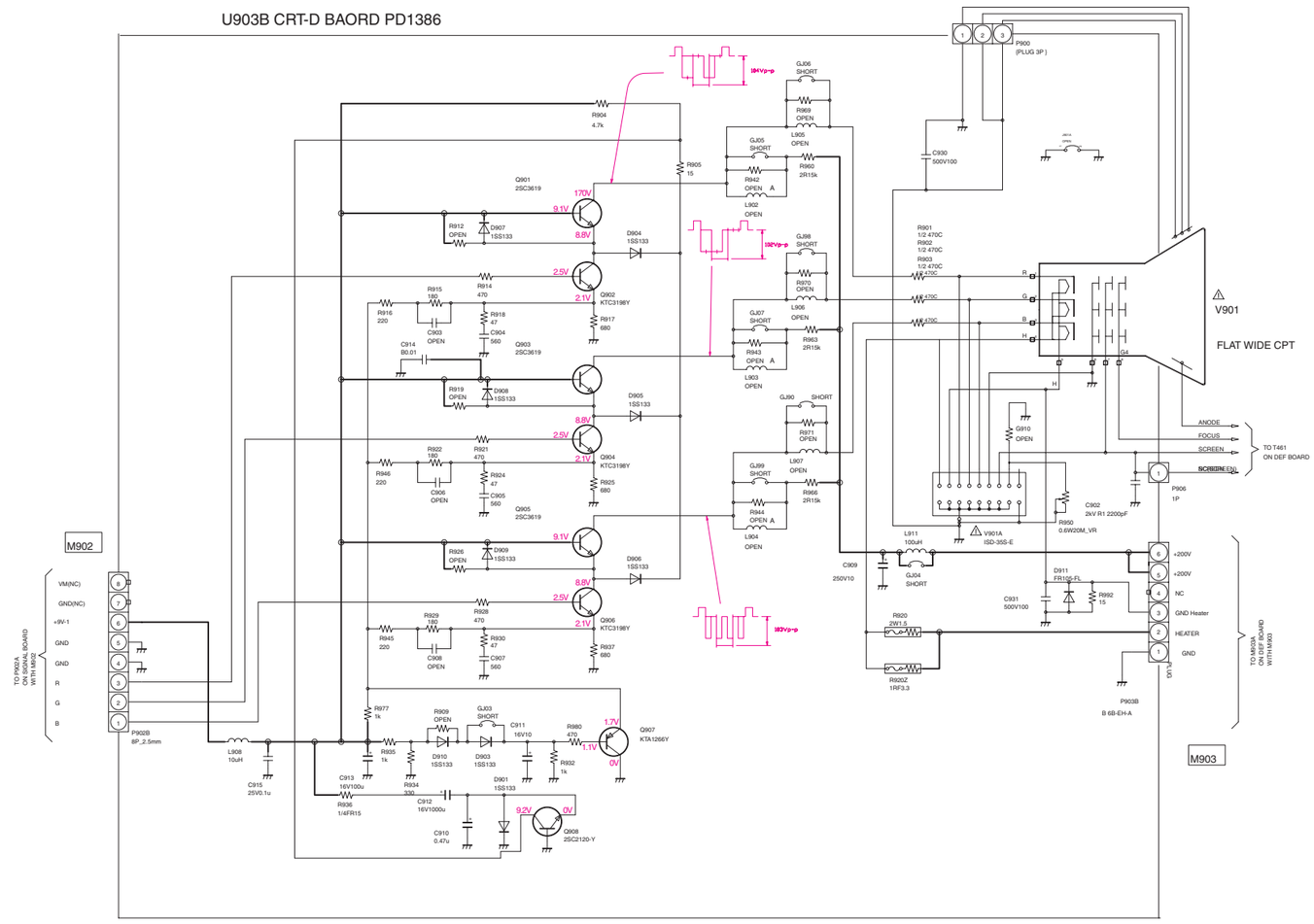
U903A PW UNIT POWER/DEFLECTION BOARD PD1386 **B-1**

B-2

CAUTION LIVE AREA

28Z44B
POWER/DEF/CRT D (POWER/DEFLECTION)
SHEET-1/2

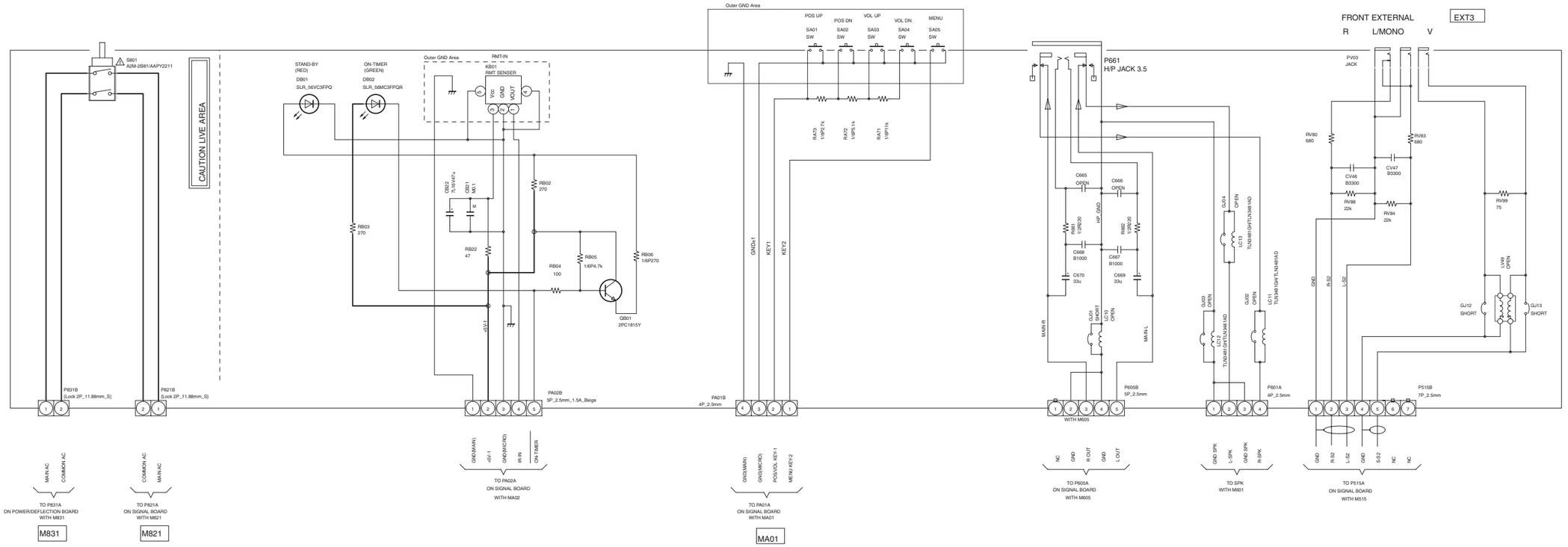
U903B CRT-D BAORD PD1386



28Z44B
POWER/DEF/CRT D (CRT D)
SHEET-2/2

U904

PW UNIT CONT BOARD PD11724A



28Z44B
CONT

OPEN

28Z44B
MA

(8/8)